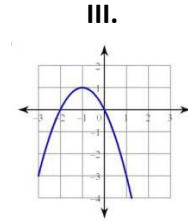
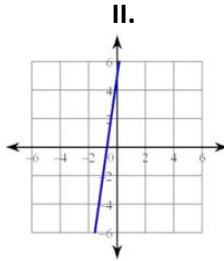
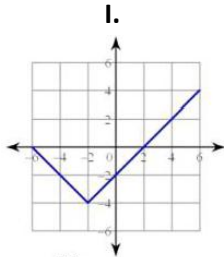


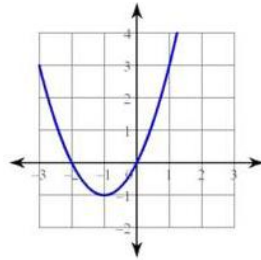
## CHAPTER 9 MULTIPLE CHOICE QUIZ

1. Which of the following graphs represents a quadratic function



- a. I                      b. II                      c. III                      d. I & III

2. What is the y-intercept for the following graph

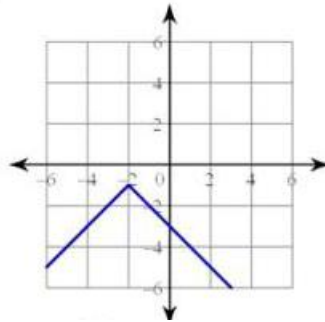


- a. (0,0)                      b. (-2,0)                      c. (0,-2)                      d. Choice A and B

3. What is the vertex for the following function:  $y = -2|x - 7| + 8$  ?

- a. (8,7)                      b. (7,8)                      c. (-7,8)                      d. (8,-7)

4. State the axis of symmetry for the following graph:



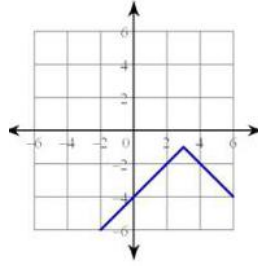
- a.  $x = 0$                       b.  $y = -2$                       c.  $x = -2$                       d.  $y = 0$

5. What is the slope for the following function:  $y = -\frac{4}{5}|x - 2| - 8$  ? State whether it opens up or down.

- a. Opens Down  
Slope =  $\pm 8$                       b. Opens Down  
Slope =  $\pm \frac{4}{5}$                       c. Opens Up  
Slope =  $\pm 8$                       d. Opens Up  
Slope =  $\pm \frac{4}{5}$

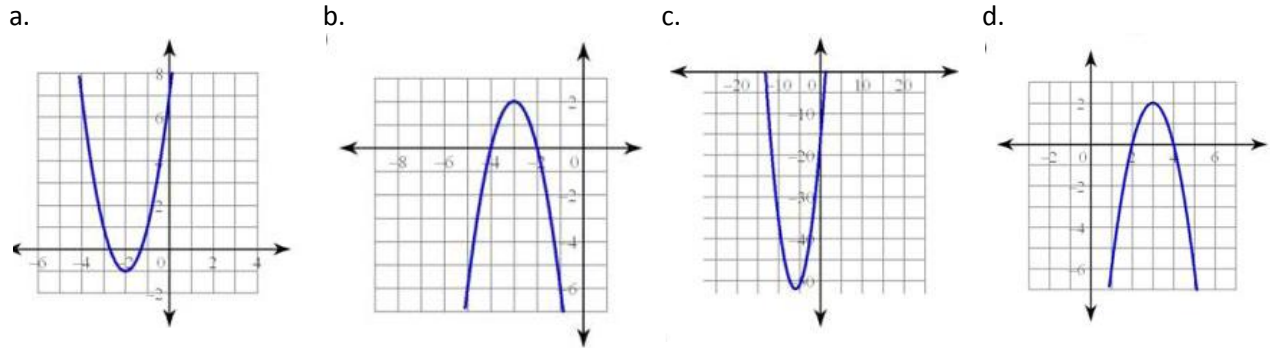
Name: \_\_\_\_\_ Block: \_\_\_\_\_ Date: \_\_\_\_\_

6. State the domain and the range for the following:



- a. Domain:  $\mathbb{R}$  (all reals)  
Range:  $y \geq -1$
- b. Domain:  $\mathbb{R}$  (all reals)  
Range:  $y \leq -1$
- c. Domain:  $x \geq -1$   
Range:  $\mathbb{R}$  (all reals)
- d. Domain:  $x \leq -1$   
Range:  $\mathbb{R}$  (all reals)

7. Which of the following graphs represents  $f(x) = -2(x - 3)^2 + 2$  ?



8. Given  $f(x) = x^2$  is the parent function, what is the equation of  $g(x)$  if it has been translated 6 right, vertically stretched by 4 units and translated 5 units down.

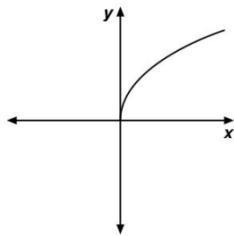
- a.  $g(x) = 4(x - 6)^2 + 5$
- b.  $g(x) = 4(x - 6)^2 - 5$
- c.  $g(x) = 4(x + 6)^2 - 5$
- d.  $g(x) = 4(x + 6)^2 + 5$

**Extra Credit**

9. Which of the following absolute value functions opens up, has a vertex at (3,2), and has a slope of  $\pm 5$

- a.  $f(x) = -5|x - 3| + 2$
- b.  $f(x) = 5|x + 3| - 2$
- c.  $f(x) = 5|x - 3| + 2$
- d.  $f(x) = 5|x + 3| + 2$

10. What is the domain and range of the following



- a. Domain:  $\mathbb{R}$  (all reals)  
Range:  $y \geq 0$
- b. Domain:  $\mathbb{R}$  (all reals)  
Range:  $y \leq 0$
- c. Domain:  $x \geq 0$   
Range:  $y \geq 0$
- d. Domain:  $x \leq 0$   
Range:  $y \leq 0$

Name: \_\_\_\_\_ Block: \_\_\_\_\_ Date: \_\_\_\_\_

CHAPTER 9 MULTIPLE CHOICE

ANSWER KEY

Question #	Answer
1	C
2	A
3	B
4	C
5	B
6	B
7	D
8	B
EXTRA	CREDIT
9	C
10	C